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1 Network Protocols

Andrew S. Tanenbaum

December 1981 ACM Computing Surveys (CSUR), Volume 13 Issue 4

Full text available: pdf(3.37 MB) Additional Information: full citation, references, citings, index terms

2 A minimal duplex connection capability in the top three layers of the OSI re

M. F. Dolan

June 1984 ACM SIGCOMM Computer Communication Review , Proceedings of the ACM Communications architectures and protocols: tutorials & symposium, Vo

Full text available: pdf(538.55 KB)

Additional Information: full citation, abstract, referen

A minimal duplex connection capability is described as the ability to open, close, duplex connection between two application processes. The goal of this paper is 1 capability for the top three layers of the Open Systems Interconnection (OSI) R use by very small Open Systems such as home computers. Such a connection ci to interconnect wit ...

3 The transport layer: tutorial and survey

Sami Iren, Paul D. Amer, Phillip T. Conrad

December 1999

ACM Computing Surveys (CSUR), Volume 31 Issue 4

Full text available:  pdf(261.78 KB)

Additional Information: full citation, abstract, references.

Transport layer protocols provide for end-to-end communication between two or more computers. This tutorial on transport layer concepts and terminology, and a survey of transport layer protocol TCP is used as a reference point, and compared and contrasted with the past two decades. The service and protocol features of twelve of the most important both text and tables. < ...


Keywords: TCP/IP networks, congestion control, flow control, transport protocol

4 SNA and OSI: three strategies for interconnection

Matthew A. Tillman, David C.-C. Yen

February 1990

Communications of the ACM, Volume 33 Issue 2

Full text available:  pdf(1.03 MB)

Additional Information: full citation, abstract, references, in

The rise of the Open Systems Interconnection Reference Model (OSI) in the past few years has led to plans for its proprietary network standard Systems Network Architecture (SNA). Several strategies to be considered.

5 A society model for office information systems

Cheng-Seen Ho, Yang-Chang Hong, Te-Son Kuo

July 1986

ACM Transactions on Information Systems (TOIS), Volume 4 Issue 1

Full text available:  pdf(2.24 MB)

Additional Information: full citation, abstract, references, in

A society model, which characterizes the behavior and procedure of offices, is proposed. A system capable of dealing with all real office problems only through the model is to be developed. In this society model, office entities are viewed as agents. An agent is an interacting knowledge sources. Within the micro-society, there exists a micro-society ...

6 The current status of MAP

J S Foley, Y Weon-Yoon

September 1986

Proceedings of the ACM SIGCOMM conference on Communication: ...

Full text available:  pdf(734.48 KB)


Additional Information: full citation, abstract, references

MAP is a standard computer networking discipline and a unified set of communication protocols to implement a vendor independent network of computers. MAP provides a complete program. The major facilities, file transfer, process to process messaging, inter-process communication are supported. Virtual terminal protocol support is planned for the near future. Many agreed on ...

7 Exploiting recursion to simplify RPC communication architectures

D. R. Cheriton

August 1988 ACM SIGCOMM Computer Communication Review , Symposium proceedings and protocols, Volume 18 Issue 4

Full text available:  pdf(1.64 MB)

Additional Information: full citation, abstract, references, citations

Current communication architectures suffer from a growing collection of protocol gateways and applications, resulting in increasing implementation and maintenance interoperability. The remote procedure call (RPC) approach has been used in some diversity of application layer protocols within the procedure call abstraction. However applied ...

8 Security Mechanisms in High-Level Network Protocols

Victor L. Voydock, Stephen T. Kent

June 1983 ACM Computing Surveys (CSUR), Volume 15 Issue 2

Full text available:  pdf(3.23 MB) Additional Information: full citation, references, citations

9 Integrating X.400 message handling into the IBM VM/SP environment

K. Fischer, W. F. Racke

August 1987 ACM SIGCOMM Computer Communication Review , Proceedings of the communications technology, Volume 17 Issue 5

Full text available:  pdf(842.13 KB)

Additional Information: full citation, abstract, references

A prototype X.400 message handling system for IBM's VM/SP operating system provide smooth integration of X.400 services into the predominantly used mean VM/SP environment (RSCS). The system provides native X.400 services to its users between RSCS and X.400 protocols.

10 OSI communication services supporting CSCW applications

Bernd Heinrichs, Kai Jakobs

November 1993 Proceedings of the 11th annual international conference on Systems

Full text available:  pdf(886.25 KB)

Additional Information: full citation, references, index terms

11 Addressing the system-on-a-chip interconnect woes through communication

M. Sgroi, M. Sheets, A. Mihal, K. Keutzer, S. Malik, J. Rabaey, A. Sangiovanni-Ven

June 2001 Proceedings of the 38th conference on Design automation

Full text available:  pdf(180.03 KB)

Additional Information: full citation, abstract, references,

Communication-based design represents a formal method approach to of system communication between components as important as the computations they per ; approach partitions the communication into layers to maximize reuse and prov the underlying communication framework. This layered approach is cast in the s network model and is demonstrated with ...

Keywords: communication-based design, network-on-chip, platform-based design

12 Computer Networks

L. W. Brinn

February 1985 Proceedings of the sixteenth SIGCSE technical symposium on Computing
Issue 1 , 1

Full text available:  pdf(514.95 KB)

Additional Information: full citation, references

Keywords: computer networks

13 Transport Layer Issues: A transport layer approach for achieving aggregate hosts

Hung-Yun Hsieh, Raghupathy Sivakumar

September 2002 Proceedings of the 8th annual international conference on Mobile Computing

Full text available:  pdf(380.57 KB)

Additional Information: full citation, abstract, references,

Due to the availability of a wide variety of wireless access technologies, a mobile and access to more than one wireless network at a given time. In this paper, we host, and address the problem of achieving bandwidth aggregation by striping d mobile host. We show that both link layer striping approaches and application la multiple TCP sockets d ...


Keywords: bandwidth aggregation, multi-homed mobile host, striping

14 The (un)revised OSI reference model

John Day

October 1995

ACM SIGCOMM Computer Communication Review, Volume 25 I:

Full text available:  pdf(1.43 MB)

Additional Information: full citation, abstract, in:

In 1988, SC21, the ISO committee responsible for the Open Systems Interconn that it was time to undertake revising ISO 7498-1, The Basic OSI Reference Mo in 1984, this was in accordance with ISO practice of reviewing and revising stan good reason for considering the task. Over the intervening five years, the group many questions about the ar ...

15 An analysis of CP/NET

George H. Clapp

December 1983

Proceedings of the 1983 ACM SIGSMALL symposium on Personal

Full text available:  pdf(615.71 KB)

Additional Information: full citation, abstract, referenc

CP/NET, a software package designed to add networking capabilities to microcoi operating system, is examined with respect to internal logical organization, sepa with the ISO OSI reference model.

16 Internetting between VAX and Apollo ring network

N. N. Y. Chu

October 1983

ACM SIGCOMM Computer Communication Review , Proceedings of the communications, Volume 13 Issue 4

Full text available:  pdf(458.62 KB)

Additional Information: full citation, abstract, referen

Specifications for a network design to connect the Apollo DOMAIN network with paper. Three networking approaches were considered which represent three dis of computer communications. Based on a comparison of data transfer rate and t alternatives, the LAN, represented by the Ethernet, was recommended as the cc Model was used as a ...

17 A reliable multicast session protocol for collaborative continuous-feed appli

Walid Mostafa, Mukesh Singhal

April 1997

Proceedings of the 1997 ACM symposium on Applied computing

Full text available:  pdf(448.42 KB)

Additional Information: full citation, references, index terms

18 Implementing the ISO-OSI reference model

R. Popescu-Zeletin

October 1983 ACM SIGCOMM Computer Communication Review , Proceedings of the communications, Volume 13 Issue 4

Full text available:  pdf(803.92 KB)

Additional Information: full citation, abstract, referen

The ISO-OSI reference model was the design framework for the implementation environment. The HMINET-2 is a network based on standards in data communic feasibility and outlines the encountered problems and the adopted solutions in 1

19 Network support for mobile multimedia using a self-adaptive distributed pro

Zhuoqing Morley Mao, Hoi-sheung Wilson So, Byunghoon Kang

January 2001 Proceedings of the 11th international workshop on Network and opera video

Full text available:  pdf(212.65 KB)

Additional Information: full citation, abstract, referen

Recent advancements in video and audio codec technologies~(e.g., RealV ideo [across a wide range of network conditions. With an increasing trend of ubiquitou have overlapping coverage of multiple wired and wireless networks. Because the user moves, to provide good multimedia application performance, the service ne as network and computational res ...

20 Distributed multimedia applications and quality of service: a survey

Andreas Vogel, Brigitte Kerhervé, Gregor v. Bochmann, Jan Gecsei

October 1994 Proceedings of the 1994 conference of the Centre for Advanced Stud

Full text available:  pdf(98.35 KB)

Additional Information: full citation, abstract, referen

Quality of service (QoS) is becoming an issue of increasing importance in distrib presents an overview of the QoS issues involved in the design of such systems. in all system components. We will discuss QoS parameters found in communicat multimedia databases, file servers, as well as those directly concerned with the parameters can be seen as an overall ...

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21 Some critical considerations on the ISO/OSI RM from a network implement

R. Popescu-Zeletin

June 1984 ACM SIGCOMM Computer Communication Review , Proceedings of the ACM Communications architectures and protocols: tutorials & symposium, Vo

Full text available: pdf(639.44 KB)

Additional Information: full citation, abstract, referen

The paper outlines the conceptual and practical aspects encountered in the design of a heterogeneous computer network based on the standardization output. We discuss its related standards from a design, implementation and operational point of view and their rationales.

22 The state of the art in locally distributed Web-server systems

Valeria Cardellini, Emiliano Casalicchio, Michele Colajanni, Philip S. Yu

June 2002 ACM Computing Surveys (CSUR), Volume 34 Issue 2

Full text available: pdf(1.41 MB)

Additional Information: full citation, abstract, references, ci

The overall increase in traffic on the World Wide Web is augmenting user-perceived delays at Web sites, especially in conjunction with special events. System platforms that do not provide the needed scalability to handle large traffic volumes and to match rapidly changing client needs. The need to improve the performance of Web-based services has produced a variety of architectures. This article w ...

Keywords: Client/server, World Wide Web, cluster-based architectures, dispatching, load balancing, routing mechanisms

23 The ISO Reference Model of Open Systems Interconnection: A first tutorial

Leslie Jill Miller

January 1981

Proceedings of the ACM '81 conference

Full text available:  pdf(552.77 KB)


Additional Information: full citation, abstract, referen

During the 1970's computing facilities which had previously provided stand-alon networks under quite different geographical, technical, financial and application independent developments was that similar services were often provided by quii interconnection became extremely difficult. Late in the 1970's a strong desire fo communication arose. It w ...

24 Contents of the Computer Communication Review 1970–1994

David Oran

January 1995 ACM SIGCOMM Computer Communication Review, Volume 25 Issue 1

Full text available:  pdf(1.75 MB)

Additional Information: full citation, index terms

25 Multi-level specification and protocol design for distributed multimedia comi

Taieb F. Znati, Yi Deng, Brian Field, Shi-Kuo Chang

October 1991 ACM SIGOIS Bulletin , Conference proceedings on Organizational comi

Full text available:  pdf(1.42 MB)

Additional Information: full citation, references, citings,

26 An evaluation technique for a protocol in development

Philip M. Irey, David T. Marlow, Richard E. Nance

December 1990 Proceedings of the 22nd conference on Winter simulation

Full text available:  pdf(390.55 KB) Additional Information: full citation, references, index terms

27 Improving TCP performance over mobile networks

Hala Elaarag

September 2002

ACM Computing Surveys (CSUR), Volume 34 Issue 3

Full text available:  pdf(219.39 KB)

Additional Information: full citation, abstract, references,

Transmission Control Protocol (TCP) is the most commonly used transport proto that mobile computers and their wireless communication links will be an integra paper, we present how regular TCP is well tuned to react to packet loss in wired the problems associated with it. We discuss why regular TCP is not suitable for r ...


Keywords: I-TCP, M-TCP, MTCP, New-Reno, Reno, SACK, TCP performance, WAI implementations, end-to-end, link layer, mobile TCP, mobile host, mobile wirele: standard TCP, wired networks, wireless TCP

28 Possibilities of using protocol converters for NIR system construction

Sven Ubik

April 1997

ACM SIGCOMM Computer Communication Review, Volume 27 Issue

Full text available:  pdf(1.09 MB)

Additional Information: full citation, abstract, index

Volumes of information available from network information services have been increasing. Users' satisfaction with an information service depends very much on the quality of the (NIR) system used to retrieve information. The construction of such a system involves user interface design and the implementation of NIR protocols. In this paper we discuss using formal methods of protocol construction.

Keywords: network information retrieval, network information services, protocol construction

29 An APL interface to the open systems interconnection for large scale applications

R. Beltrame, G. Faconti, P. Palamidese

June 1984 ACM SIGAPL APL Quote Quad, Proceedings of the international conference

Full text available:  pdf(416.34 KB)

Additional Information: full citation, abstract, references

Large scale applications require the integration of logical and physical resources and non programmers. In many cases this integration is obtained by gathering in a central system which are part of the application itself. The Reference Model of Open Systems Interconnection is the basis for the coordination of standards developments for the systems interconnection. end-user interface is a ...

30 SNATCH opens manufacturers' networks through gateways

D. Einert, G. Glas

October 1981

Proceedings of the seventh symposium on Data communication

Full text available:  pdf(425.98 KB)

Additional Information: full citation, abstract, references

At the present manufacturers' network architectures do not provide co-operation across boundaries of their own homogeneous networks, i.e. open systems as defined by the Inter-connection do not yet exist. Project SNATCH shows to open the closed network of computer manufacturers by means of gateway system. Mapping the manufacturer's network vice versa, gateway system acts as a channel ...

31 MACE: a fine grained concurrent editor

R. E. Newman-Wolfe, Harsha K. Pelimuhandiram

October 1991 ACM SIGOIS Bulletin, Conference proceedings on Organizational computing

Full text available:  pdf(1.13 MB)

Additional Information: full citation, references, citations

32 A general purpose proxy filtering mechanism applied to the mobile environr

Bruce Zenel

October 1999

Wireless Networks, Volume 5 Issue 5

Full text available:  pdf(385.25 KB)

Additional Information: full citation, references, citings, index terms

33 Design of a communication system for a real-time C2 simulator

F. Dennis Kenyon, Terry J. Westley

December 1990

Proceedings of the conference on TRI-ADA '90

Full text available:  pdf(944.99 KB)

Additional Information: full citation, abstract, refer

The design of a communication system reflects many decisions made after analyzing the goals of a particular program. This paper describes the key characteristics and Services for a distributed real-time C2 (command and control) simulator. Many are made possible by the choice of Ada as the implementation language. The final d

34 Client-server computing

Alok Sinha

July 1992

Communications of the ACM, Volume 35 Issue 7

Full text available:  pdf(7.53 MB)

Additional Information: full citation, references, citings, index terms, review

Keywords: client-server computing

35 Client-server computing in mobile environments

Jin Jing, Abdelsalam Sumi Helal, Ahmed Elmagarmid

June 1999

ACM Computing Surveys (CSUR), Volume 31 Issue 2

Full text available:  pdf(233.31 KB)

Additional Information: full citation, abstract, references, citir


Recent advances in wireless data networking and portable information appliance computing, called mobile computing, in which users carrying portable devices have services regardless of their physical location or movement behavior. In the meantime, access in mobile environments has proliferated. In this survey, we provide a comprehensive view of the various ways ...

Keywords: application adaptation, cache invalidation, caching, client/server, data, mobile applications, mobile client/server, mobile computing, mobile data, mobility

36 Data communications buzzwords

P. D. Moulton

May 1988 Proceedings of the ACM SIGCPR conference on Management of informat

Full text available:  pdf(1.00 MB)

Additional Information: full citation, abstract, ind

This paper provides an introduction to some of the basic data communications b personnel and other professionals need to know to effectively deal with informal approach is to first present how information systems are changing today into BA to identify the primary data communication issue, compatibility, that is caused b Computing networks. The buzzwords users ...

37 An overview of BLN: A bell laboratories computing network

K. E. Coates, D. L. Dvorak, R. M. Watts

October 1981 Proceedings of the seventh symposium on Data communication

Full text available:  pdf(466.57 KB)

Additional Information: full citation, abstract, references,

The Bell Laboratories Network (BLN) provides a host-to-host networking service the heterogeneous computer environment at Bell Laboratories. BLN incorporate architecture similar to the one currently being proposed by ISO and CCITT, and most of the networking software to reside in totally portable modules. BLN has l a 3-node and then in an 8 ...

38 Integrated personal mobility architecture: a complete personal mobility solu

Binh Thai, Rachel Wan, Aruna Seneviratne, Thierry Rakotoarivelo

February 2003 Mobile Networks and Applications, Volume 8 Issue 1

Full text available:  pdf(208.62 KB)

Additional Information: full citation, abstract, referen

The high expectations and demand for users to access the Internet from anywhi important part of the design and development of the next generation mobile cor user mobility has been divided into two areas: Terminal Mobility and Personal M has focused on the movement of the terminal and developed extensions to IP pr personal mobility has onl ...

Keywords: mobile agents, personal communications, personal mobility

39 Mu3D: a causal consistency protocol for a collaborative VRML editor

Ricardo Galli, Yuhua Luo

February 2000 Proceedings of the fifth symposium on Virtual reality modeling lang

Full text available:  pdf(614.28 KB)

Additional Information: full citation, abstract, references, c

This paper describes the implementation of the Mu3D application protocol and c the collaborative editing of CAD design. The collaborative editor (M3D editor) de editor has been used as a base for the European Esprit project No. 26287 - M3C 96-0544/CODI for Cooperative CAD applications. In our system, only the change other collaborative sessio ...

Keywords: CAD, VRML, architecture, distributed virtual environments, multicasti

40 A service management framework for M-commerce applications

Gary Shih, Simon S. Y. Shim

June 2002 Mobile Networks and Applications, Volume 7 Issue 3

Full text available:  pdf(650.12 KB)

Additional Information: full citation, abstract, references, c

Mobile commerce (m-commerce) refers to an ability to conduct wireless comme in mobile devices. M-commerce applications can range from as simple as an adc complicated as credit card transactions. M-commerce is expected to grow drama simple to complex commerce transactions. Even though the Wireless Applicatio the development of wireless application ...

Keywords: JINI, WAP, m-commerce, management, mobile devices

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41 Some practical considerations in the design of local computer networks

Mark Paulk

April 1982

Proceedings of the 20th annual Southeast regional conference

Full text available: pdf(247.09 KB)

Additional Information: full citation, abstract

This paper describes a network that uses standard links to connect heterogeneo to facilitate interprocess communication among multiple processes. The ISO mo between the network design and the standard is examined.

42 NetCp—a project environment for an undergraduate computer netwo

David Finkel, Surendar Chandra

March 1994 ACM SIGCSE Bulletin , Proceedings of the twenty-fifth SIGCSE symposi

Volume 26 Issue 1

Full text available: pdf(332.67 KB)

Additional Information: full citation, references, citir

43 Software engineering and middleware: a roadmap

Wolfgang Emmerich

May 2000 Proceedings of the conference on The future of Software engineering



Full text available: pdf(1.34 MB) Additional Information: full citation, references, citings, index terms

44 Networks on Silicon: Combining Best-Effort and Guaranteed Services

K. Goossens, P. Wielage, A. Peeters, J. Van Meerbergen

March 2002

Proceedings of the conference on Design, automation and test in E

Full text available:  pdf(72.85 KB)  Publisher Site

Additional Information: full citation, abstract, references, citations, etc.



We advocate a network on silicon (NOS) as a hardware architecture to implement future technologies, and as a software model in the form of a protocol stack to which we claim guaranteed services are essential. In the AETHEREAL NOS they pervade design, and as foundation for software programming.

45 Emerging mobile and wireless networks

Upkar Varshney, Ron Vetter

June 2000

Communications of the ACM, Volume 43 Issue 6

Full text available:  pdf(609.43 KB)  html(36.15 KB) Additional Information: full citation, references, citations, etc.

46 A high-performance host interface for ATM networks

C. Brendan S. Traw, Jonathan M. Smith

August 1991

ACM SIGCOMM Computer Communication Review, Proceedings of the architecture & protocols, Volume 21 Issue 4

Full text available:  pdf(756.03 KB)

Additional Information: full citation, references, citations, etc.

47 On the measured behaviour of a X.25 packet switching subnetwork

Alberto Faro, Gaetano Messina, Franco Martinucci

August 1983

Proceedings of the 1983 ACM SIGMETRICS conference on Measurement and modeling of computer systems

Full text available:  pdf(566.95 KB)

Additional Information: full citation, abstract, references, citations, etc.

The aim of this paper is to present some measurements on the performance of a typical X.25 DTE-DCE interface. The communication parameters considered are: the control, the length and contents of the packets and the internode distance. The results for the subnetwork are compared with others obtained through different versions of DTN. Some considerations are presented ...

48 Distributed operating systems

Andrew S. Tanenbaum, Robbert Van Renesse

December 1985

ACM Computing Surveys (CSUR), Volume 17 Issue 4

Full text available:  pdf(5.49 MB)

Additional Information: full citation, abstract, references, citations, etc.

Distributed operating systems have many aspects in common with centralized ones. This paper is intended as an introduction to distributed operating systems, and to discuss about them. After a discussion of what constitutes a distributed operating system, a computer network, various key design issues are discussed. Then several examples are examined in some detail ...

49 Representation of ASN.1 in APL nested structures

Peter-Michael Hager

July 2000 Proceedings of the international conference on APL-Berlin-2000 conferen

Full text available:  pdf(704.58 KB)

Additional Information: full citation, abstract, referenc

Abstract Syntax Notation One, or ASN.1, is a standardized data format for data communications, defined by the ITU. Several TCP/IP protocols and security appl APL to implement software solutions in this field, we need tools that allow us to presentation gives an overview of the ASN.1 encoding and describes a mechanis contents into APL nested structures and vice v ...

50 On implementing the OSI model in Ada via tasking

Norman R. Howes, Alfred C. Weaver

July 1988 Proceedings of the fifth Washington Ada symposium on Ada

Full text available:  pdf(636.18 KB) Additional Information: full citation, references, index terms

51 Formal specification and verification of the kernel functional unit of the OSI using CCS

Milica Barjaktarovic, Shiu-Kai Chin, Kamal Jabbour

May 1996 ACM SIGSOFT Software Engineering Notes , Proceedings of the 1996 inte and analysis, Volume 21 Issue 3

Full text available:  pdf(839.67 KB)

Additional Information: full citation, abstract, referen

This paper describes an application of formal methods to protocol specification, methods can be incorporated in protocol design and testing so that time and res testing, and documentation. In this paper we show how formal methods can be pseudo code, which can be formally tested using automated support. The forma correct implementation with des ...

52 A data processing performance model for the OSI application layer protoco

T. Shiroshita

August 1990 ACM SIGCOMM Computer Communication Review , Proceedings of the architectures & protocols, Volume 20 Issue 4

Full text available:  pdf(674.88 KB)

Additional Information: full citation, abstract, referen


The need for data structure analysis of OSI protocols has increased with the dev Application layer protocols which require a wide variety of data structures. Espe such as FDDI and B-ISDN. Application data processing is liable to be the critical based on the OSI frameworks. This paper presents a data processing model to a data receiving process ...

53 Design, implementation, and performance measurement of a native-mode version)

R. Ahuja, S. Keshav, H. Saran

August 1996

IEEE/ACM Transactions on Networking (TON), Volume 4 Issue 4

Full text available:  pdf(1.66 MB)

Additional Information: full citation, references, index

Keywords: AAL 5, asynchronous transfer mode, native-mode ATM, personal com

54 Internet security: firewalls and beyond

Rolf Oppliger

May 1997

Communications of the ACM, Volume 40 Issue 5

Full text available:  pdf(339.15 KB) Additional Information: full citation, references, citings, index terms, review

55 On providing support for protocol adaptation in mobile wireless networks

Pradeep Sudame, B. R. Badrinath

January 2001

Mobile Networks and Applications, Volume 6 Issue 1

Full text available:  pdf(146.48 KB) Additional Information: full citation, references, citings, index terms

Keywords: adaptivity, mobility, protocols, wireless networks

56 Optimizing the end-to-end performance of reliable flows over wireless links

Reiner Ludwig, Almudena Konrad, Anthony D. Joseph, Randy H. Katz

March 2002

Wireless Networks, Volume 8 Issue 2/3

Full text available:  pdf(230.41 KB)

Additional Information: full citation, abstract, references,

Pure end-to-end error recovery fails as a general solution to optimize throughput end-to-end path. It can lead to decreased end-to-end throughput, an unfair load valuable radio resources. Link layer error recovery over wireless links is essential problems. We demonstrate this through an analysis of a large set of block erasure radio environments, ...

Keywords: TCP, flow differentiation, link ARQ persistency, wireless

57 Routing and forwarding: Multicast: exploring the space between anycast and multicast

Casey Carter, Seung Yi, Prashant Ratanachandani, Robin Kravets

September 2003 Proceedings of the 9th annual international conference on Mobile Computing and Communications

Full text available:  pdf(170.59 KB)

Additional Information: full citation, abstract, references

The characteristics of ad hoc networks naturally encourage the deployment of distributed networks implement group communication methods, they do not support the need for more distributed servers. A node should not need detailed knowledge of network topology to communicate efficiently. To this end, multicast is a group communication : an arbitrary (user specified) set of nodes ...

Keywords: ad hoc routing, multicast, service location

58 Object-oriented modeling of the extended application layer structure

Adrian Tang, Wei Wei

March 1993 Proceedings of the 1993 ACM/SIGAPP symposium on Applied computing

Full text available:  pdf(570.04 KB)

Additional Information: full citation, references, index

59 Reuse in the application layer

Hiroto Okuno, Hideki Matsumoto, Hironori Asai, Mikiko Sakurai, Takao Nakayama

November 1996 Proceedings of the 1996 conference of the Centre for Advanced Studies

Full text available:  pdf(151.98 KB)

Additional Information: full citation, abstract, references

Today's advanced CASE tools, combining the building-block and generative approaches for reuse of software components and procedures in the presentation layer and are no effective tools generally available, however, for reuse of application-layer components usually too numerous and small for efficient reuse. Programmers therefore choose sheets of the application ...

60 A layered networking protocol designed to minimize complexity

Bill Hays, Larry C. Christensen, Gordon E. Stokes, Randy Stokes

February 1988 Proceedings of the 1988 ACM sixteenth annual conference on Computer Communications

Full text available:  pdf(677.64 KB)

Additional Information: full citation, abstract, references



The design of a networking protocol for the use in connecting heterogeneous computers describes a protocol based on a layered philosophy and provides for a minimum system in the network. For each layer of the network the design choices used in simple file transfer mechanism and message passing facility are presented with

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- 37 [6,064,671](#)  [Multi-homed end system for increasing computers network bandwidth](#)
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51	5,841,990	[T] Network connector operable in bridge mode and bypass mode
52	5,832,289	[T] System for estimating worst time duration required to execute procedure calls and looking ahead/preparing for the next stack operation of the forthcoming procedure calls
53	5,805,816	[T] Network packet switch using shared memory for repeating and bridging packets at media rate
54	5,799,016	[T] Network addressing scheme encoding communication channel information
55	5,781,863	[T] Pre-location of authentication information in a personal communication network
56	5,771,349	[T] Network packet switch using shared memory for repeating and bridging packets at media rate
57	5,764,756	[T] Networked telephony central offices
58	5,754,766	[T] Integrated circuit system for direct document execution
59	5,745,758	[T] System for regulating multicomputer data transfer by allocating time slot to designated processing task according to communication bandwidth capabilities and modifying time slots when bandwidth change
60	5,742,760	[T] Network packet switch using shared memory for repeating and bridging packets at media rate
61	5,737,525	[T] Network packet switch using shared memory for repeating and bridging packets at media rate

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- 90 [5,390,242](#)  [Rerouting in a distributed telecommunication system](#)
 - 91 [5,390,241](#)  [Shared line appearance across a plurality of switching systems](#)
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 - 93 [5,377,262](#)  [Telecommunication switching system having adaptive routing switching nodes](#)
 - 94 [5,375,167](#)  [Telecommunication switching system having distributed dialing plan hierarchy](#)
 - 95 [5,245,608](#)  [Logical grouping of layer entities in a layered communication architecture](#)
 - 96 [5,185,742](#)  [Transparent signaling for remote terminals](#)
 - 97 [5,182,751](#)  [Switching system using identical switching nodes](#)
 - 98 [5,182,750](#)  [Transparent remoting of switching network control over a standard interface link](#)
 - 99 [5,159,594](#)  [Transparent communication of control information through a switching network](#)
 - 100 [5,021,949](#)  [Method and apparatus for linking an SNA host to a remote SNA host over a packet switched communications network](#)
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101 4,893,307	Method and apparatus for linking SNA terminals to an SNA host over a packet switched communications network

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